

METHOD AND APPARATUS FOR DISTRIBUTING MULTIMEDIA TO REMOTE CLIENTS

Replacement Sheet

Janine W. Corley et al.

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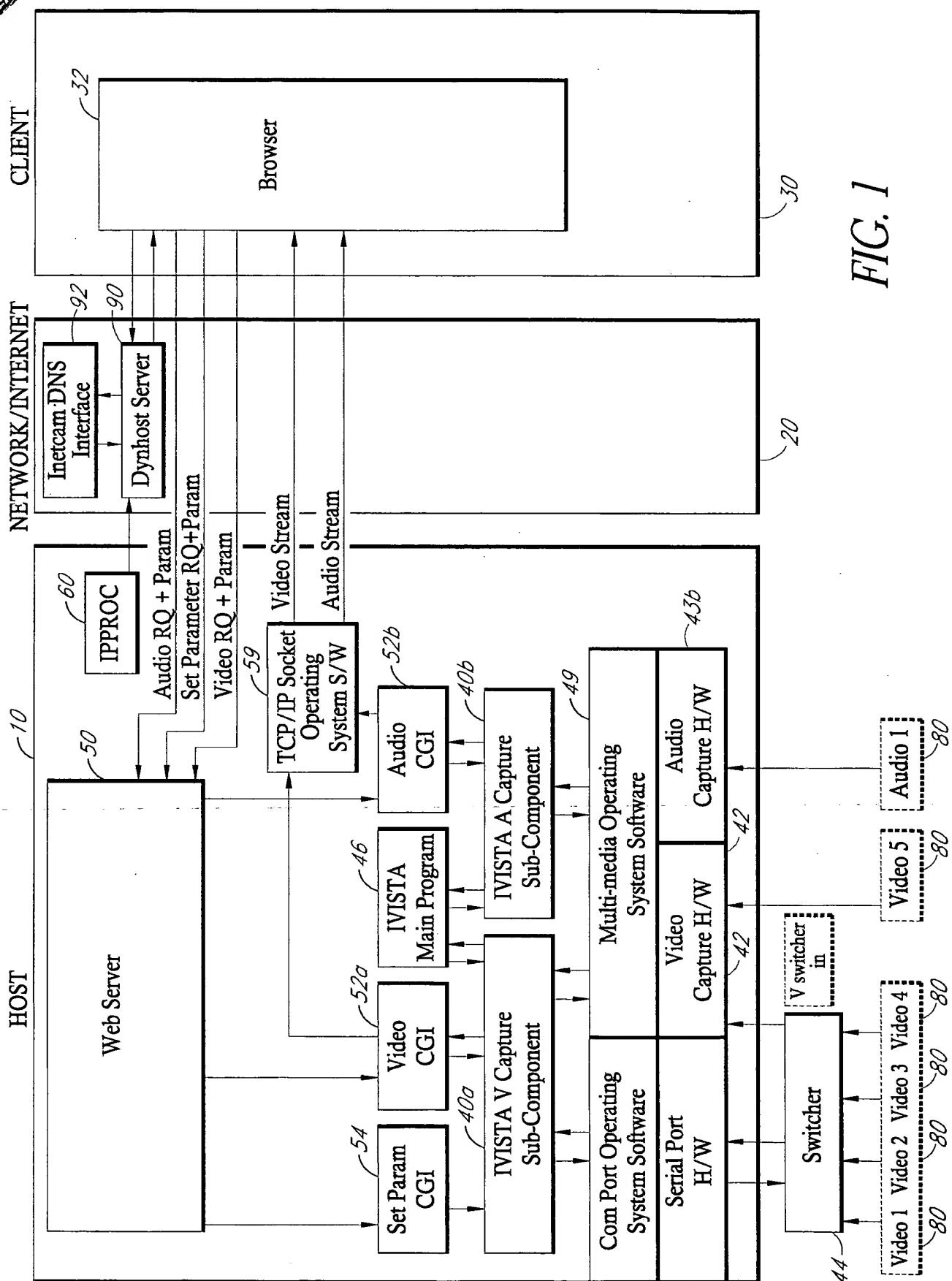


FIG. 1

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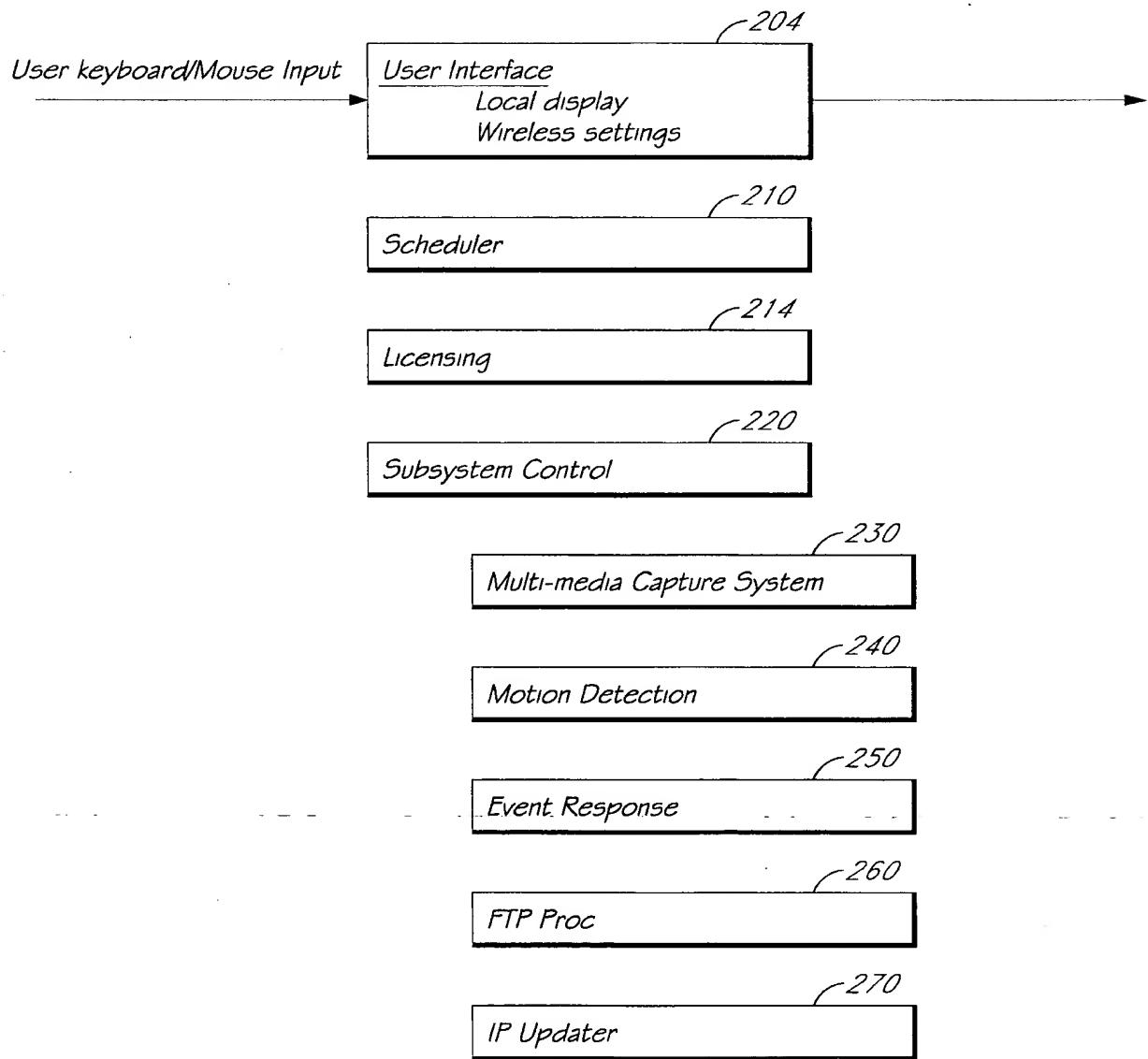


FIG. 2

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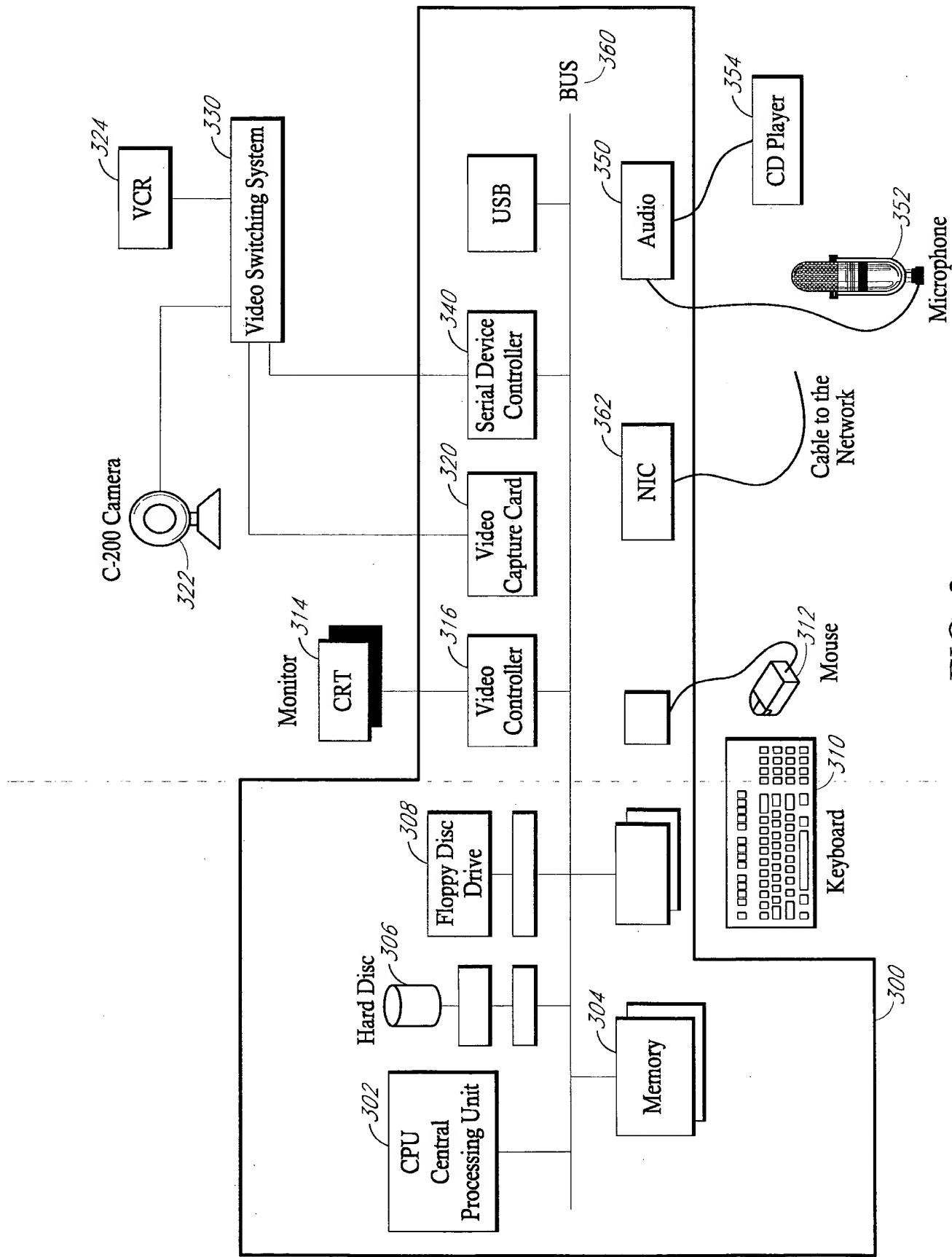
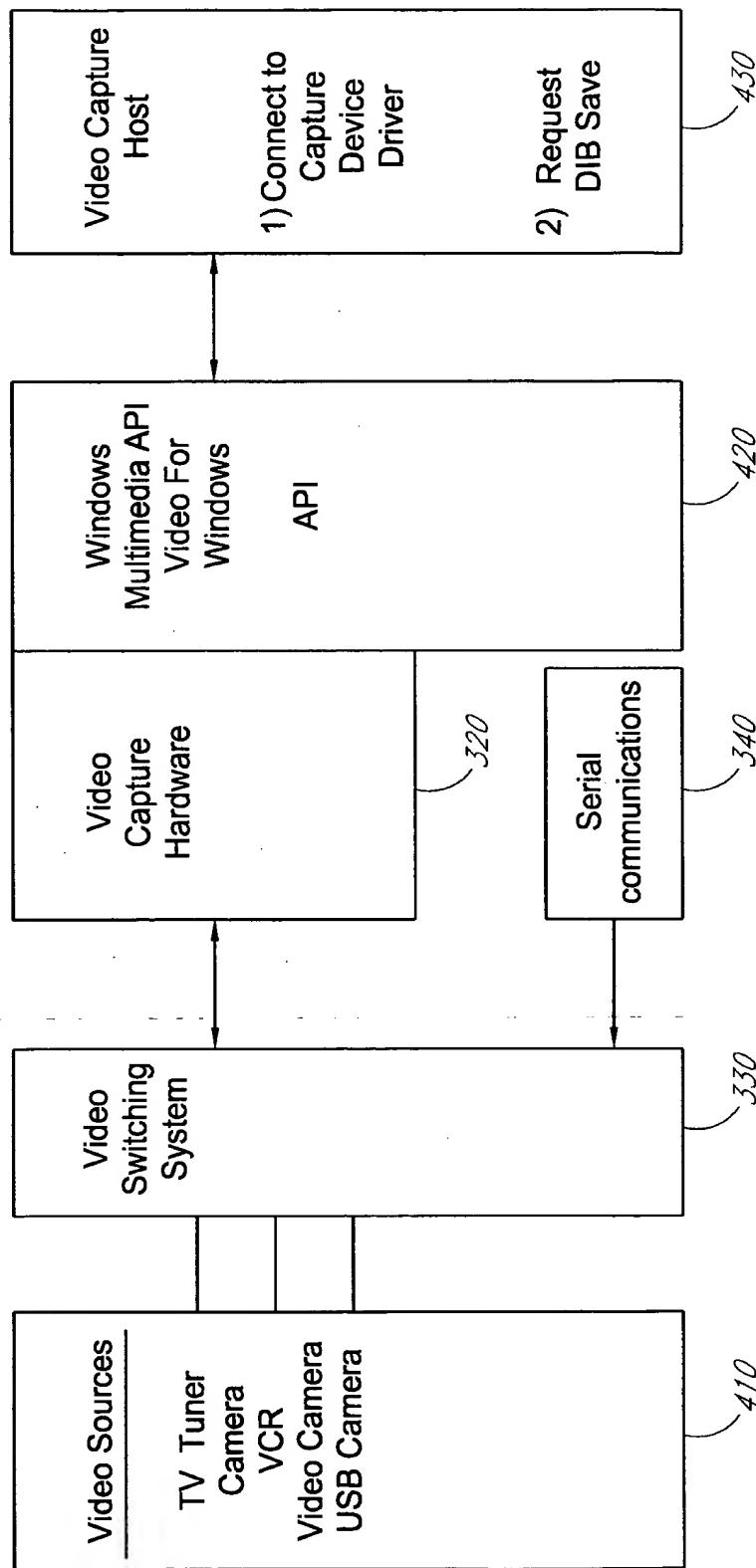


FIG. 3

**METHOD AND APPARATUS FOR DISTRIBUTING MULTIMEDIA TO REMOTE CLIENTS**  
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**FIG. 4A**

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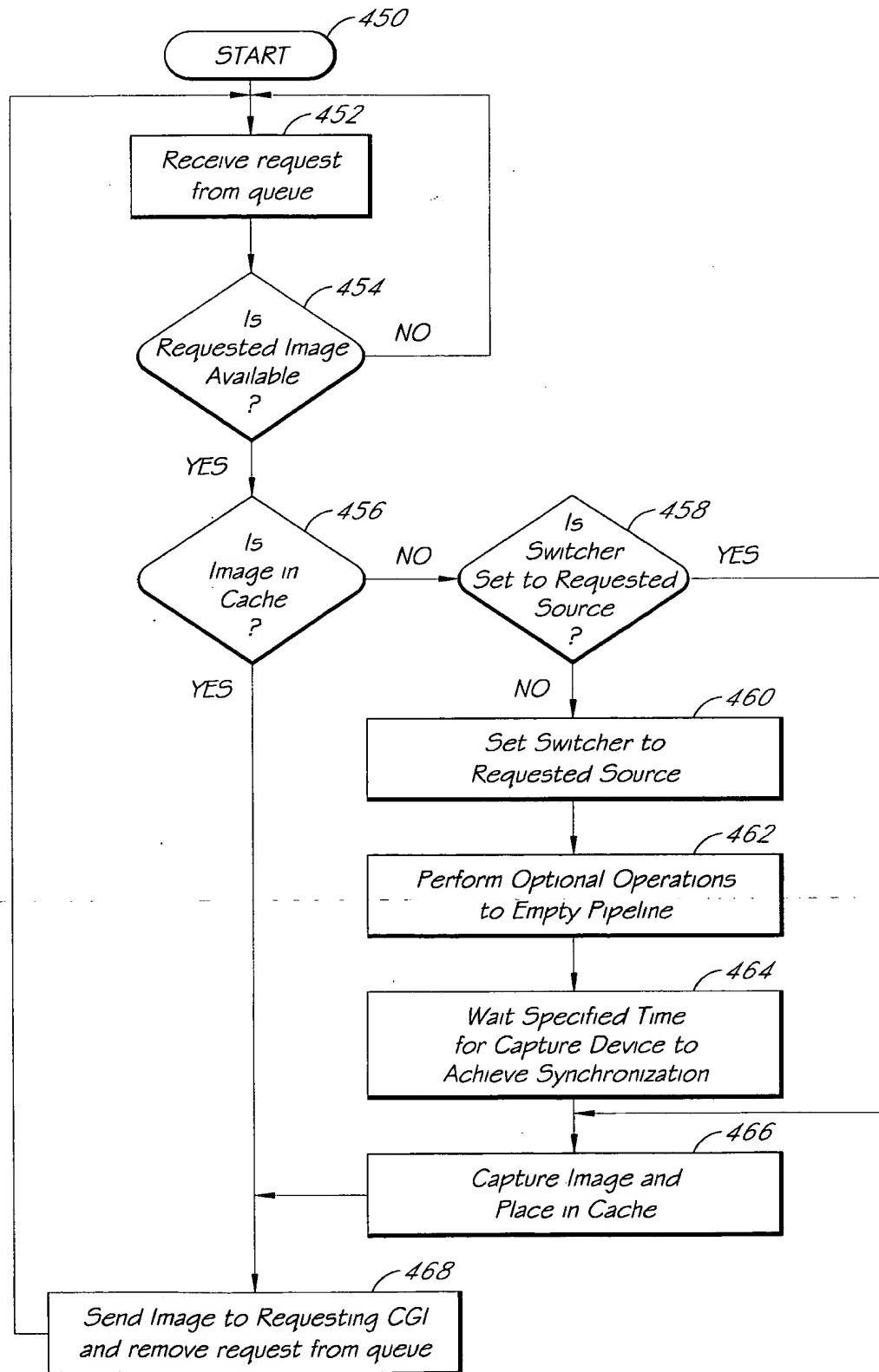


FIG. 4B

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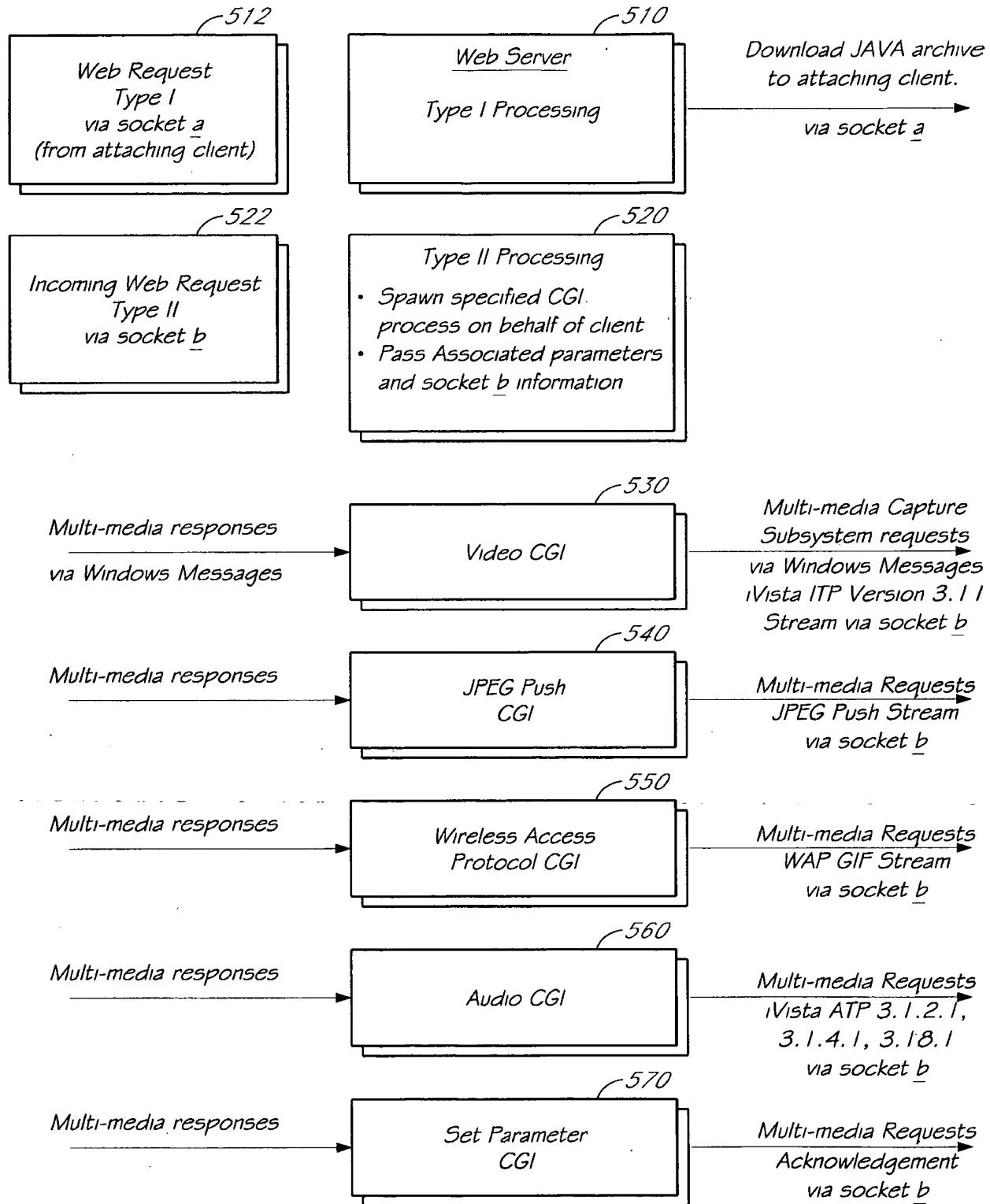


FIG. 5A

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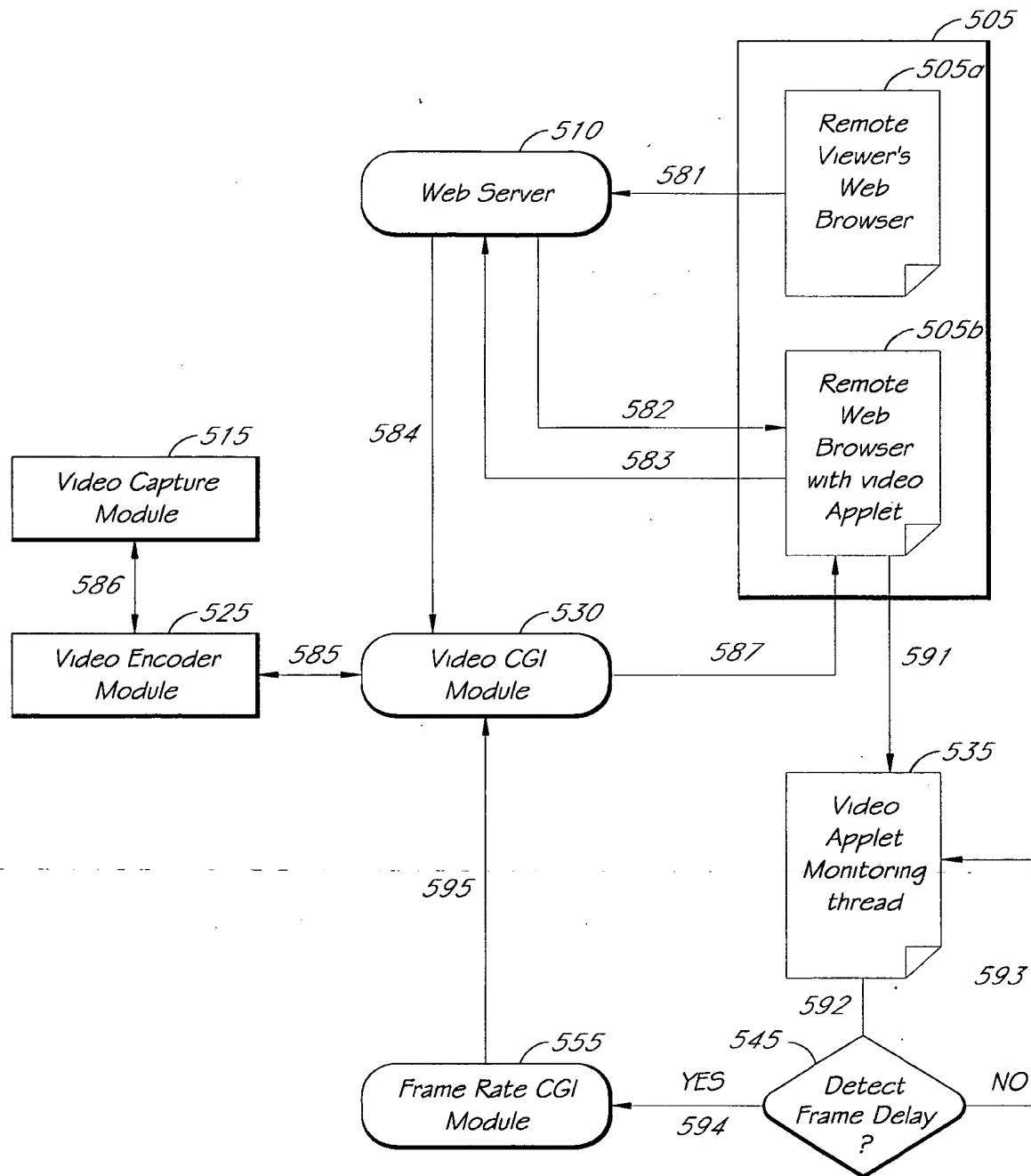


FIG. 5B

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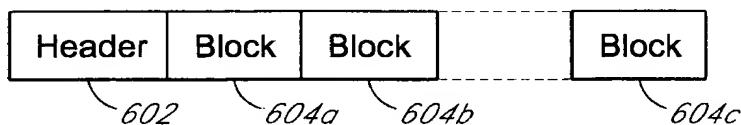
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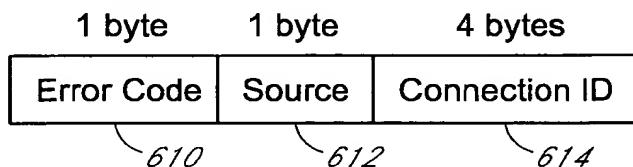
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*FIG. 6*

**Video Stream Format**



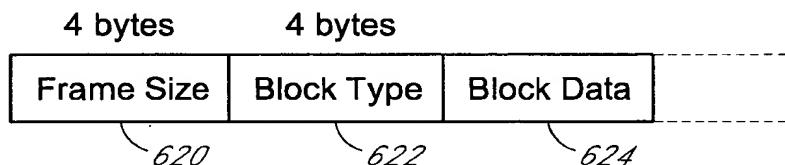
**Video Header**



0= success              0= host  
not zero= error        1= mirror

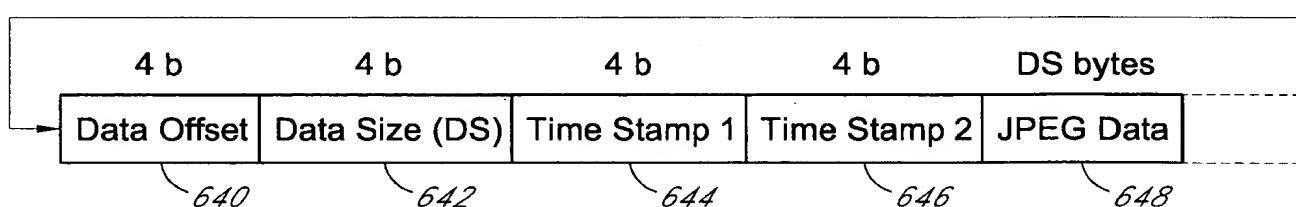
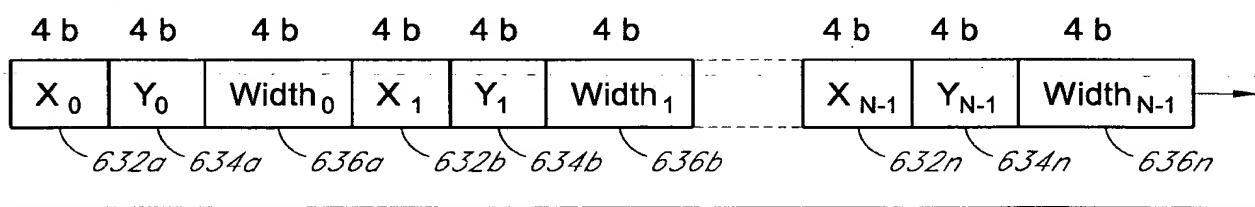
Note: If Error Code is non-zero,  
no bytes will follow and  
the stream is complete.

**Video Block**



The following are the possible block types and their block data formats

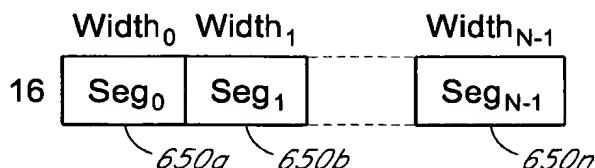
Block Type = N (N>0), Partial Frame



In this case, the image consists of N segments arranged in a horizontal "stripe".

The (X<sub>k</sub>, Y<sub>k</sub>, Width<sub>k</sub>) triplets describe the destination position and width of each segment. Each segment is 16 pixels tall.

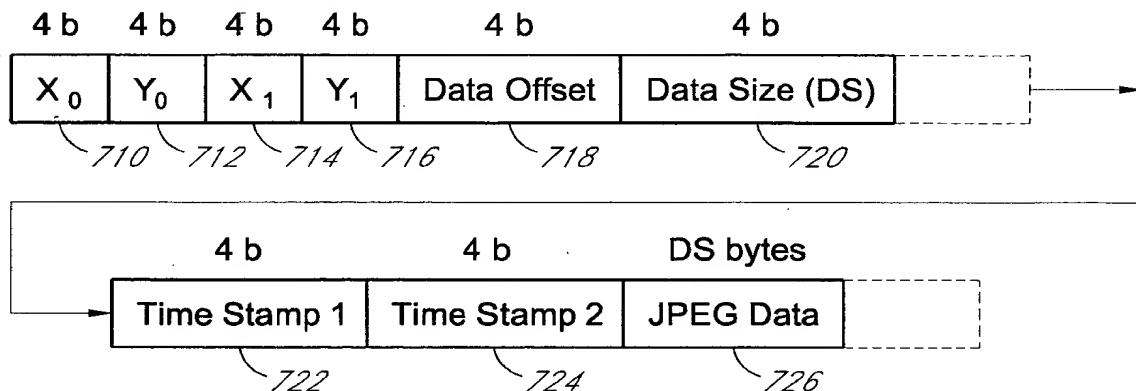
Figure:  
(A "strip" image)



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## FIG. 7

Block Type = -3, Single Block

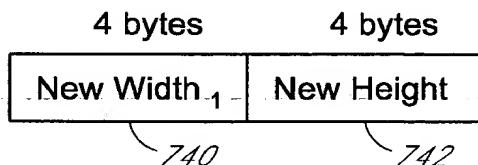


In this case, the JPEG is a single rectangle which is moved to (X<sub>0</sub>,Y<sub>0</sub>) - (X<sub>1</sub>,Y<sub>1</sub>) in the destination image.

Block Type = -4, Synchronization Frame

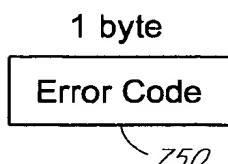
The format of this Block is identical to the Single Block described above with X<sub>0</sub> = 0, Y<sub>0</sub> = 0, X<sub>1</sub> = Width of Image, Y<sub>1</sub> = Height of Image. The block is used to resynchronize the video stream with real time.

Block Type = -1, New Image Size



This block indicates a change in the transmitted image size. It is immediately followed by a full image Single Block frame.

Block Type = -2, Error Block



This block indicates an error in the stream. The transmission is terminated following the error code.

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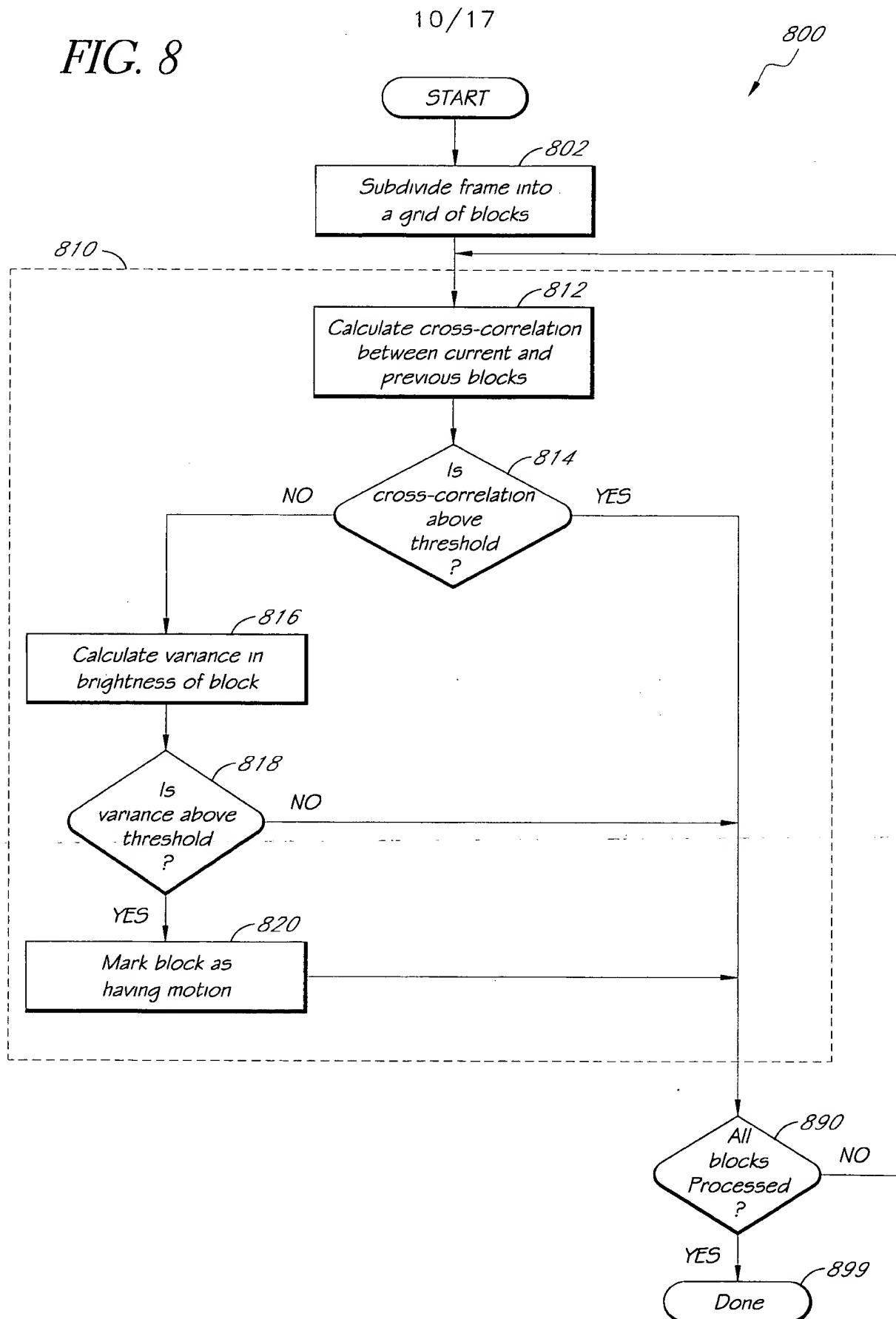
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FIG. 8



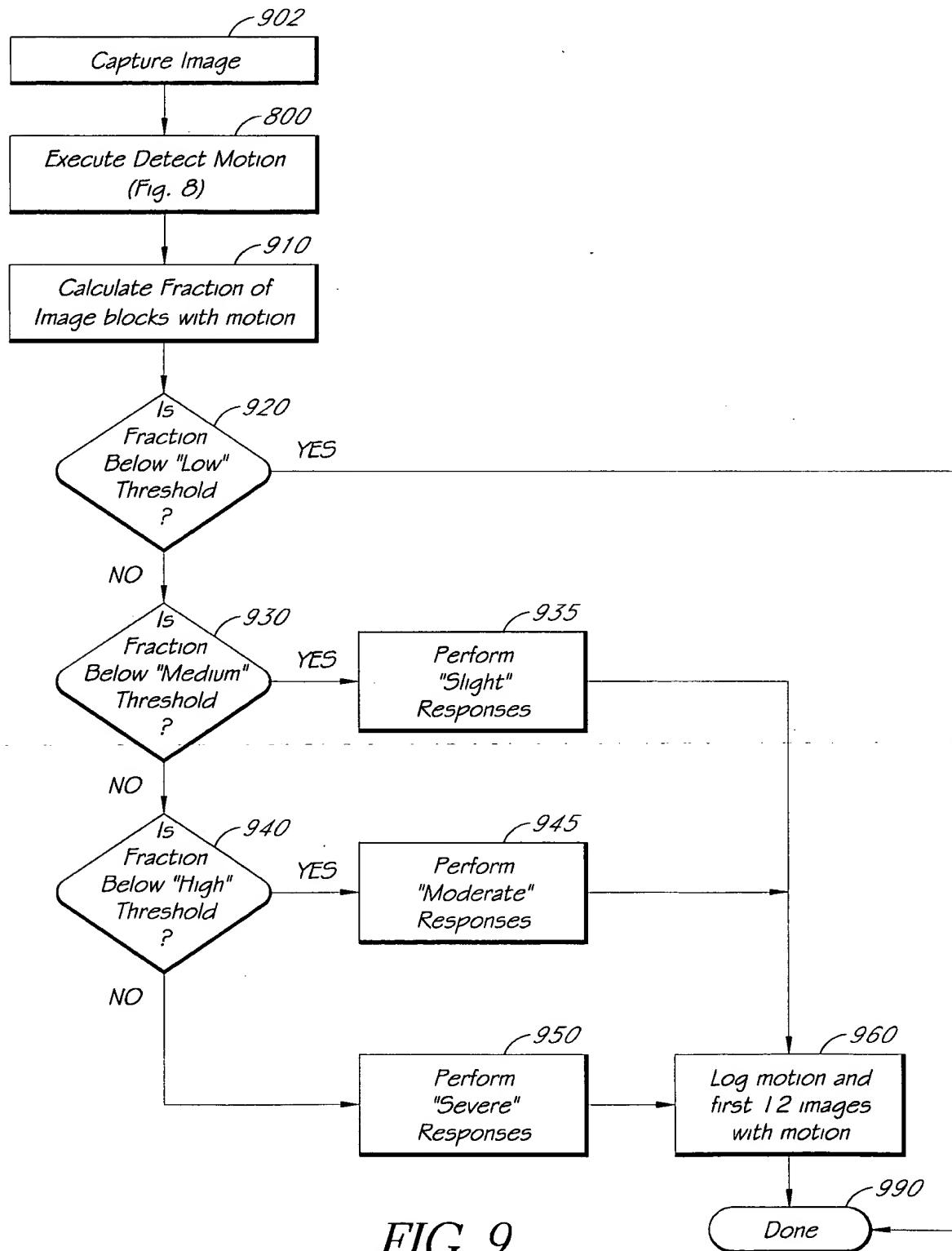


FIG. 9

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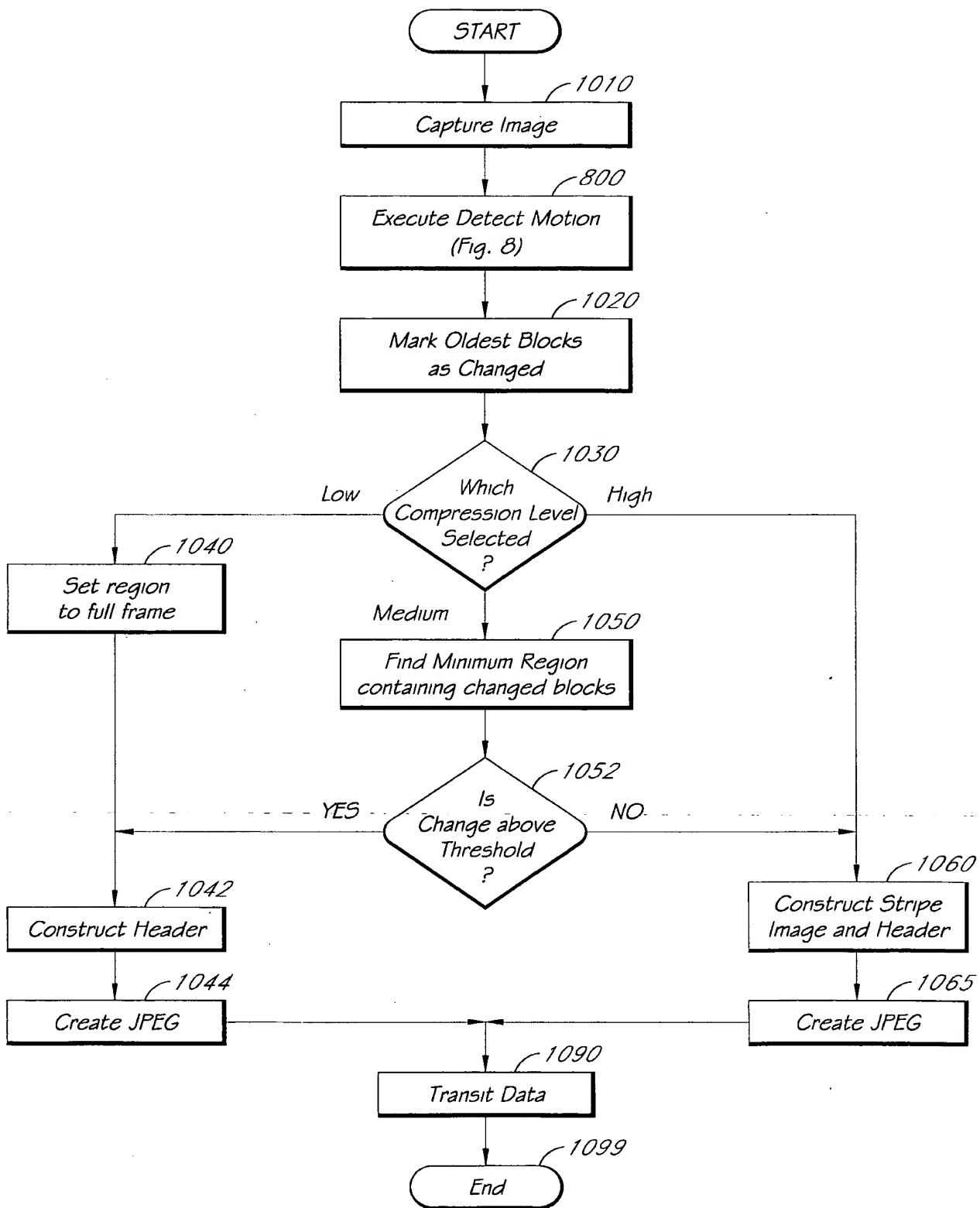


FIG. 10

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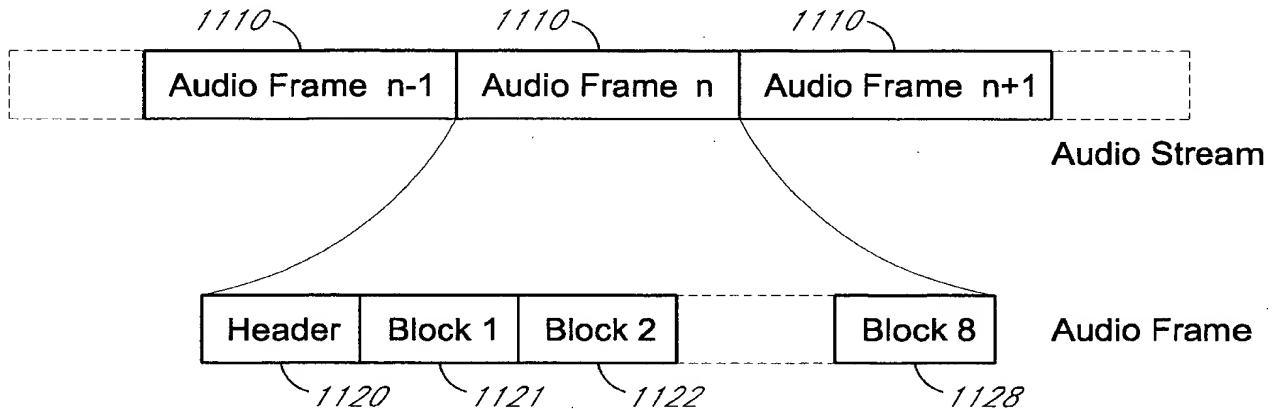
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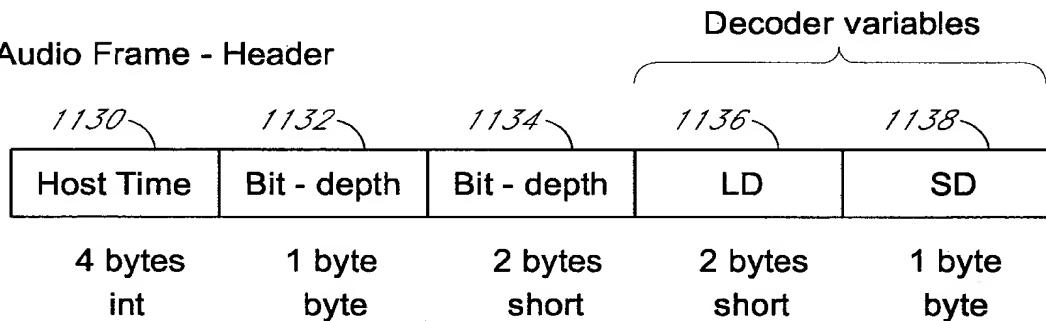
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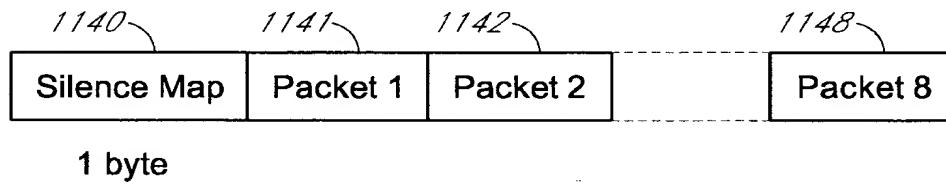
**Audio Stream Format**



**Audio Frame - Header**



**Audio Frame - Block**



Each bit in the silence map indicates whether the corresponding packet exists in the stream.

Each packet consists of 32 samples of 2-, 4-, or 8-bits each (thus 8, 16, or 32 bytes per packet).

2- and 4-bit encodings are in ADDCM format.

8-bit encoding is  $\mu$ -law compressed samples.

*FIG. 11*

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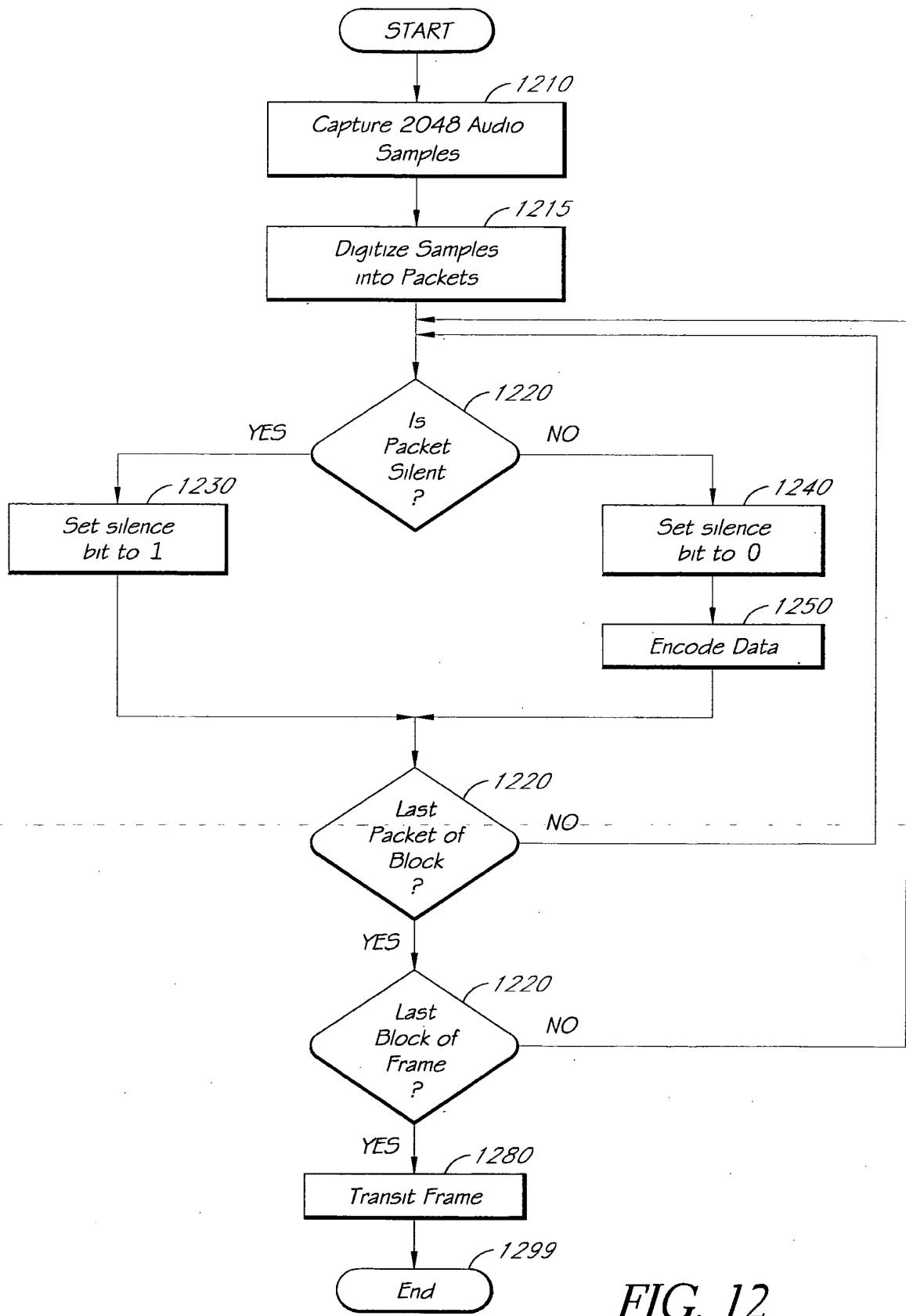


FIG. 12

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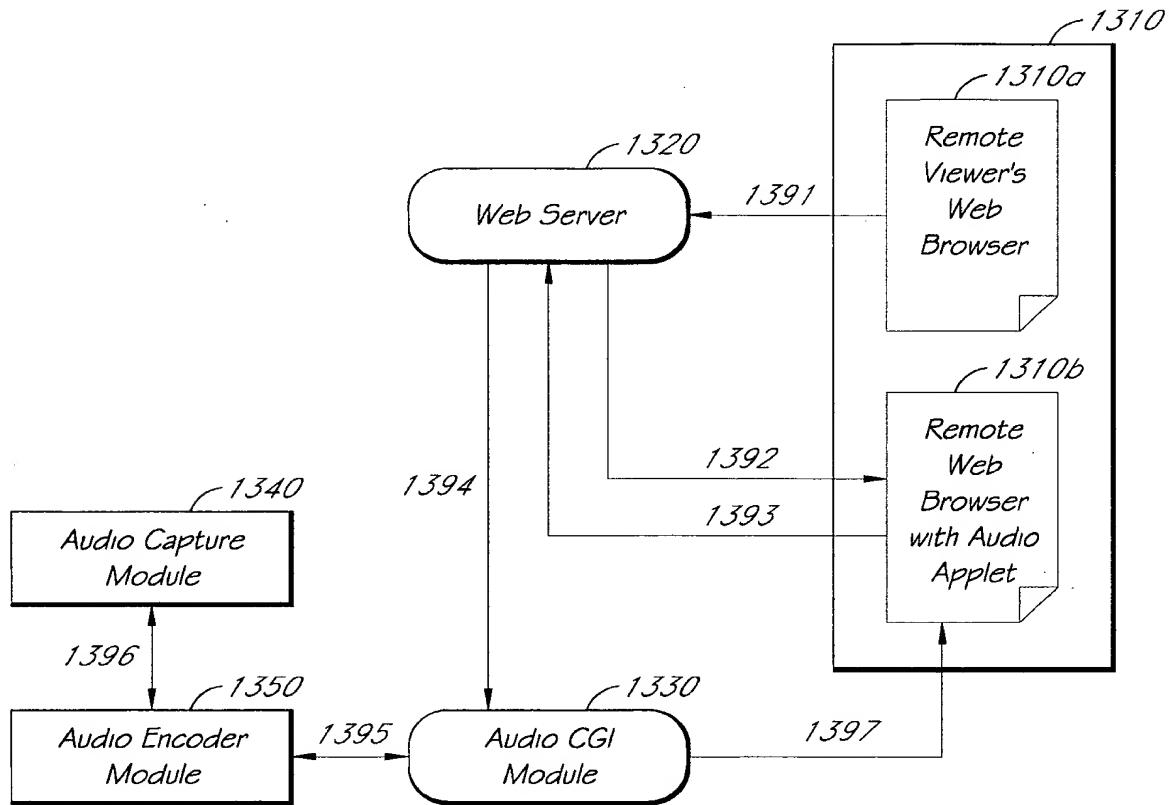


FIG. 13

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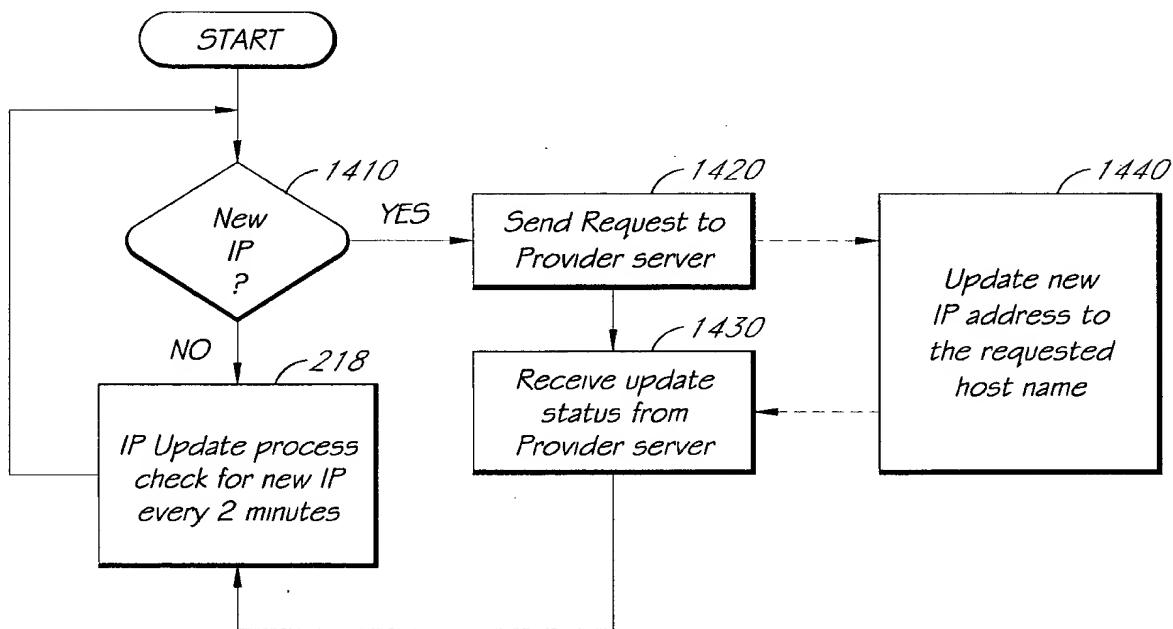


FIG. 14

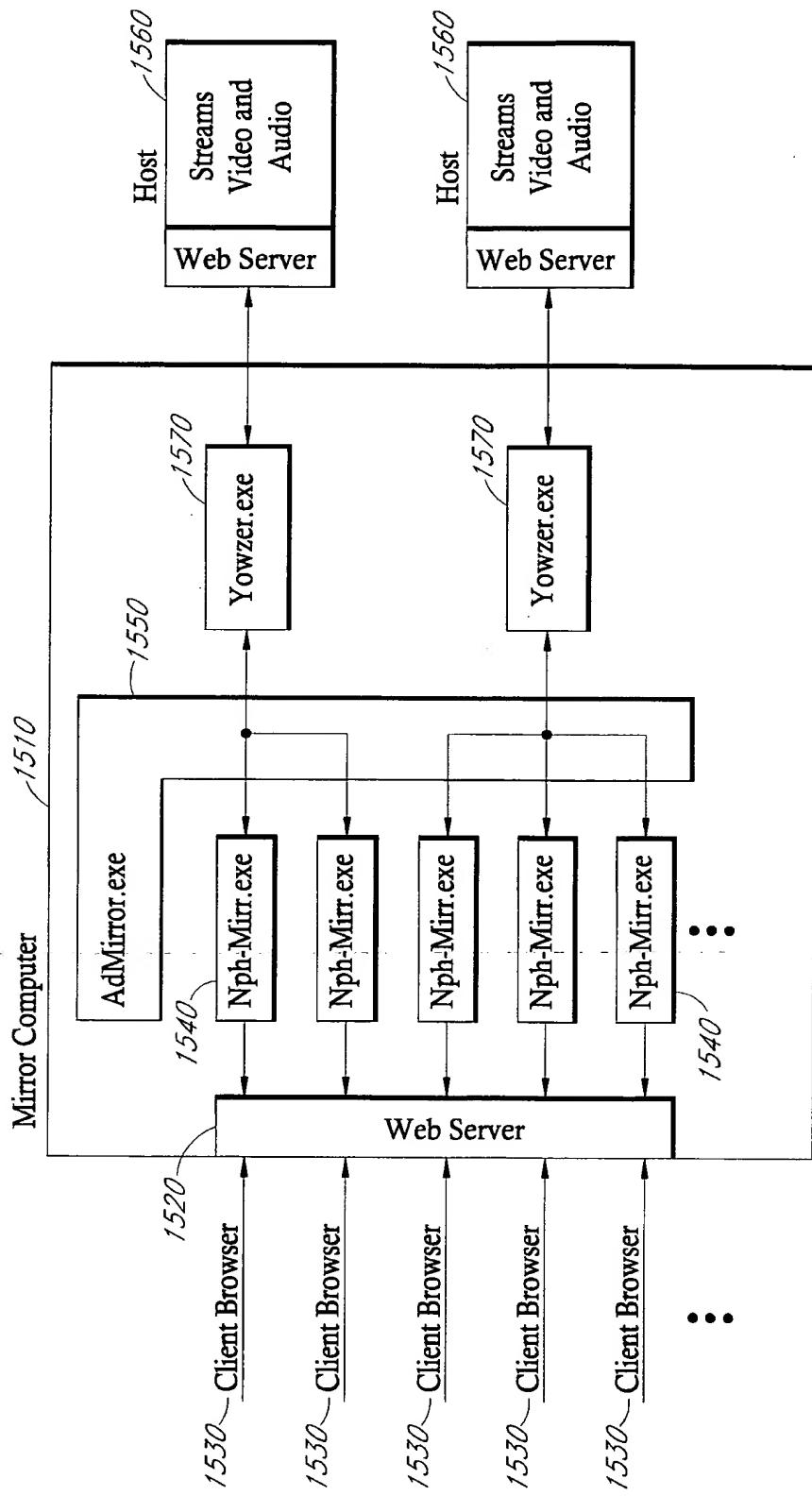


FIG. 15